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100

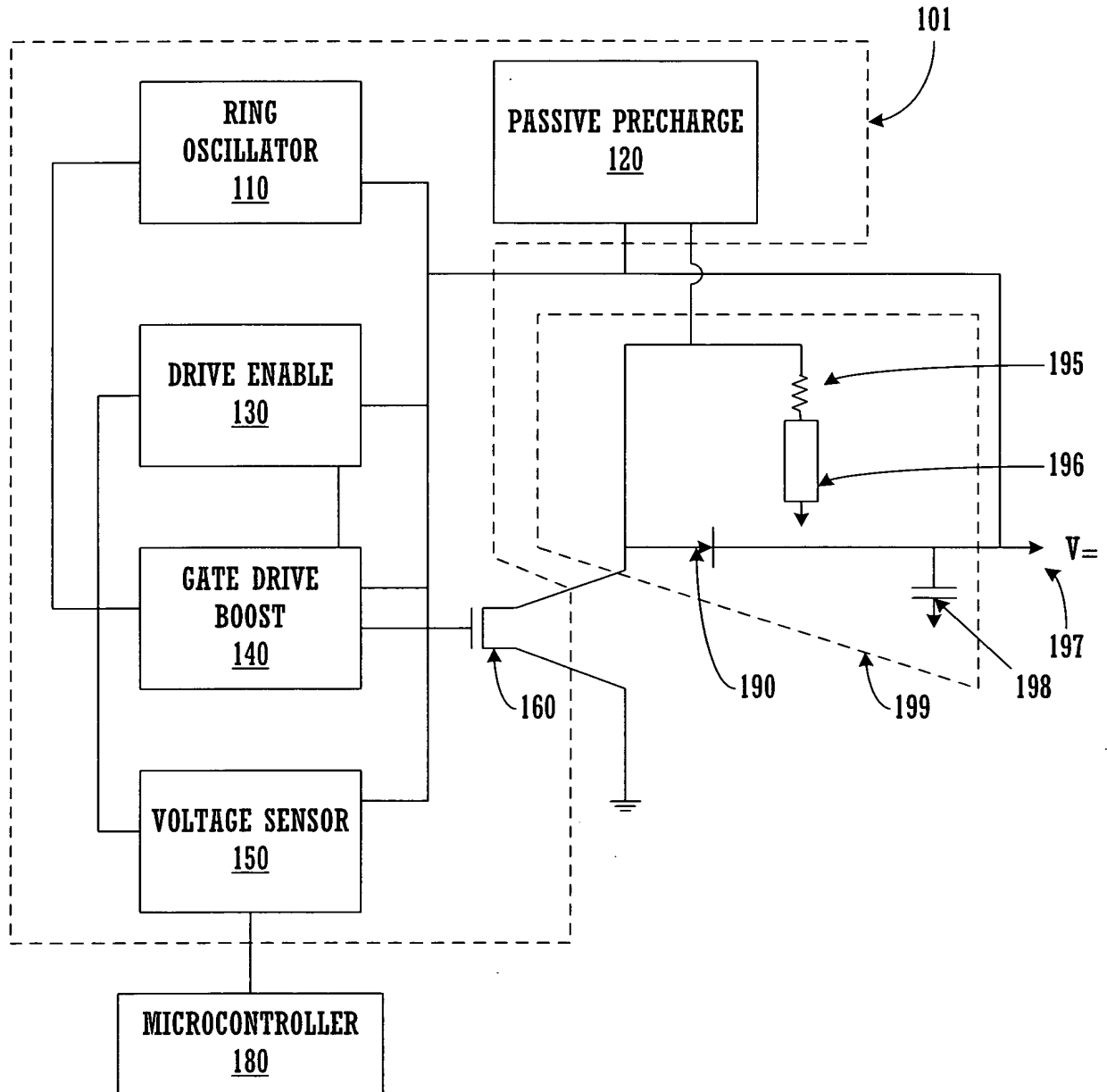


FIGURE 1



200

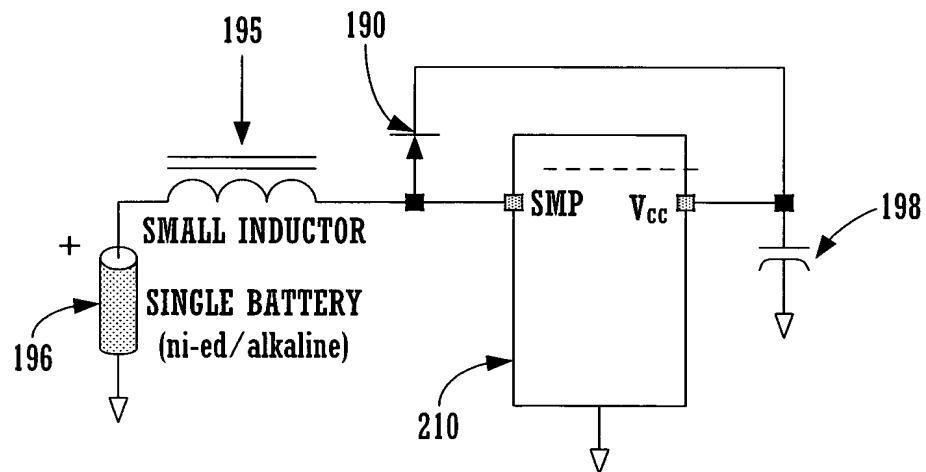


FIGURE 2



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300

GENERATE AN INITIAL OPERATING VOLTAGE FOR A POWER
SUPPLY PUMP CIRCUIT BY USING A PASSIVE PRECHARGE
CIRCUIT.

310

BOOST THE INITIAL OPERATING VOLTAGE TO A MINIMUM
OPERATING VOLTAGE USING A VOLTAGE SENSOR, INCLUDED
IN THE POWER SUPPLY PUMP CIRCUIT, THE VOLTAGE
SENSOR BEGINS THE BOOSTING OPERATION UPON
RECEIVING THE INITIAL OPERATING VOLTAGE.

320

PROVIDE THE MINIMUM OPERATING VOLTAGE OF THE
POWER SUPPLY TO A MICROCONTROLLER.

330

MICROCONTROLLER COMMANDS VOLTAGE SENSOR TO
CONTROL THE VOLTAGE SENSOR TO MAINTAIN THE
MINIMUM OPERATING VOLTAGE OR TO INCREASE TO A
HIGHER OPERATING VOLTAGE.

340

FIGURE 3



400

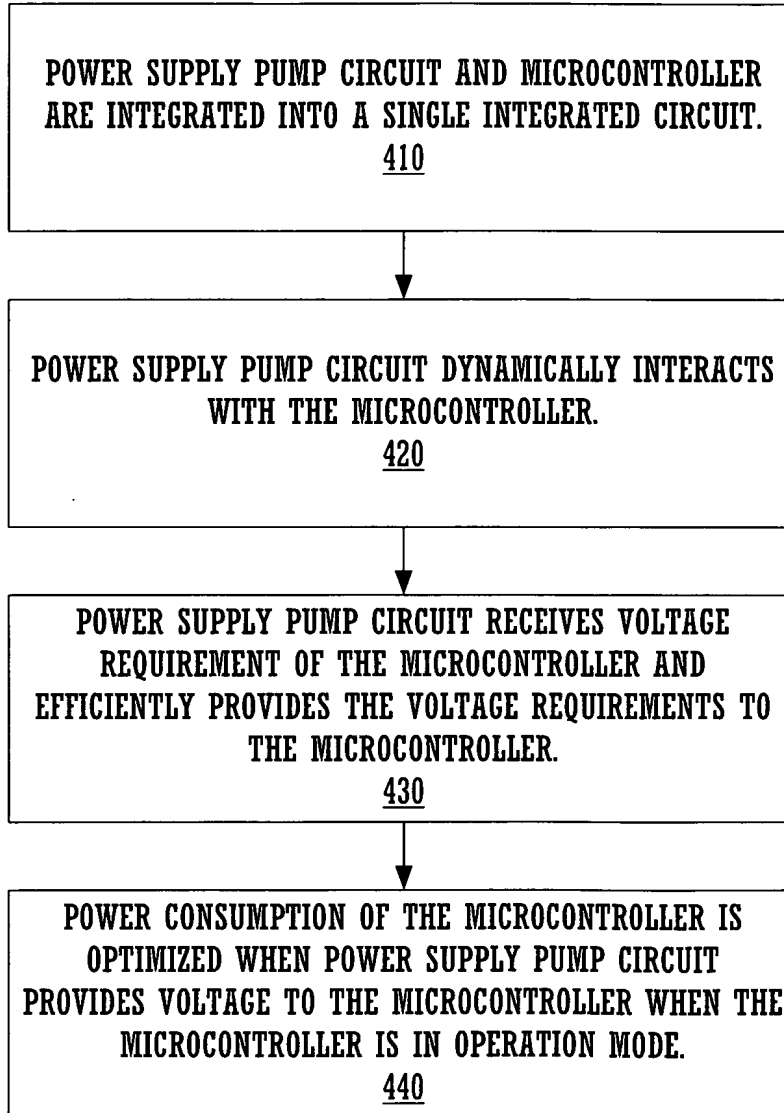


FIGURE 4



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500

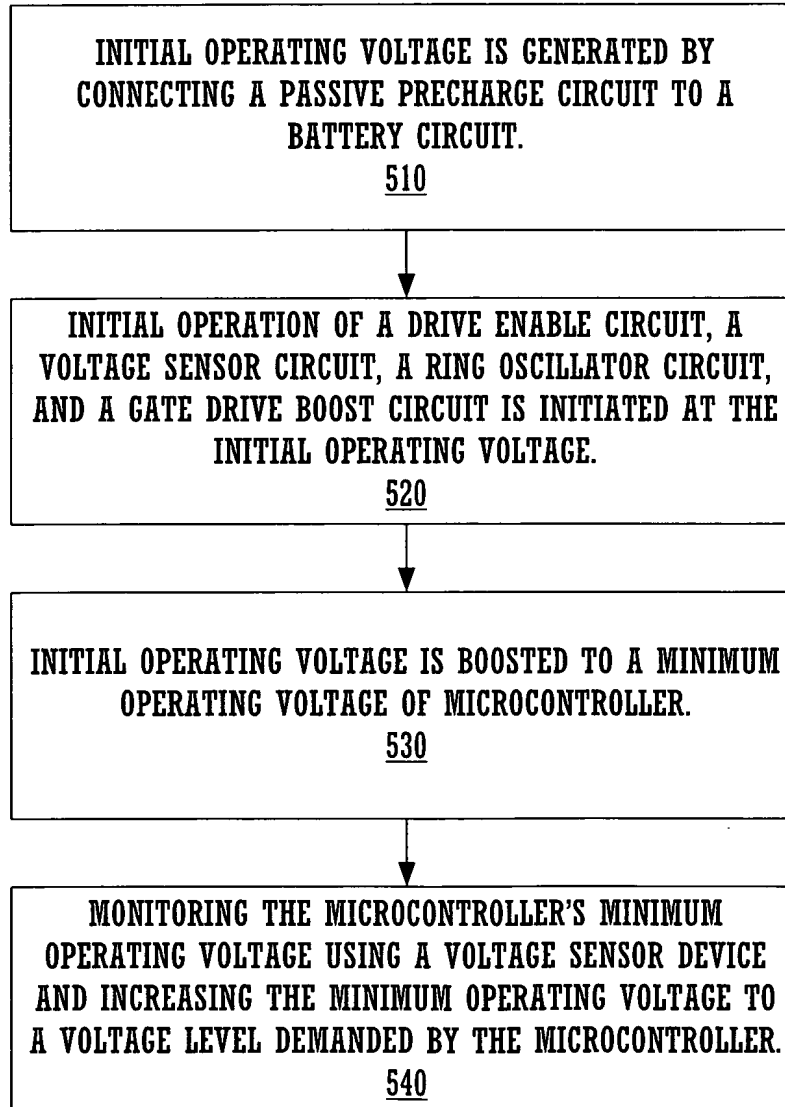


FIGURE 5